Decision Based Support

Presentation to

Maritime Allowance Working Group

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Decision Based Sparing History

- Long line of initiatives to improve re-allowancing - Focused Allowance Maintenance Strategy (FAMS)
  - Target Specific Systems vice Platforms for re-allowancing - System Allowance Technique (SAT)
    - Prototype Analysis Revealed that Allowancing alone would not improve readiness
      - Technical issues were primary drivers

Solution: Integrated Maintenance and Logistics Improvement Initiative

Decision Based Sparing Concept

- Identify and rank candidate systems for readiness improvement - Progressive Integrated Logistics Support Ready Response (PIRR)
- Program Office and Fleet Select Systems for Analysis – Allowance Control Panel (ACP)
- Perform comprehensive technical and logistics analysis to identify degradation drivers and effective solutions - Logistics Assessment Review (LAR)

DBS Status

- LHA –1 Class Ship Systems Identified for Prototype
  - CIWS Component
  - JP-5 Fuel Transfer
- NSWC Louisville, NSWC Carderock, NAVSUP, NAVICP and NAVSEALOGCEN met to Develop Process Requirements
  - Developed Extensive System Summary Sheet
  - Developed ISEA Maintenance and ILS Potential Solution Checklist
- NAVSEALOGCEN Developed Data Package to Accompany System Summary Sheet
  - Data Provided to ISEAs
  - LAR Scheduled for 24 MAR for JP-5 Fuel
  - LAR for CIWS TBD

DBS System Summary Report

- System Data Overview
  - Effectiveness, A_o
- CASREP Data
- Ship Specific Indicators
- APL Specific Indicators
- Reliability, Maintainability & Supportability Factors
  - CASREP Trending
  - Maintenance Trending & Maintenance Deferrals
  - Average Customer Wait Time
- Configuration Factors
  - G Source Codes, ACIP, X-RICs
- HM&E Standardization Factors

Decision Based Support System Summary Sheet

Ship Class: Data reporting period:

System Overview:

System Nomenclature:
EIC:

Program Office POC:
ISEA POC:
ICP POC:

Effectiveness summary:
Allowance:
Net :
Gross:

Is the system RBS'd: Y/N
If Yes, Target Ao:
Achieved Ao:
Mission Criticality Code:
(or other critical system indicator:

CASREP Data:

CASREP Category	CASREP Ratio *	C4	C3	C3 & C4 Ratio #	C2	Total CASREPs	3-M Match %
Non-Parts Related							
Parts Related							

* This Ratio is calculated by dividing the total number of CASREPs reported for this system for the reporting period by the system population within the ship class. Anything greater than 1.0 is a gross indicator of a potential problem.

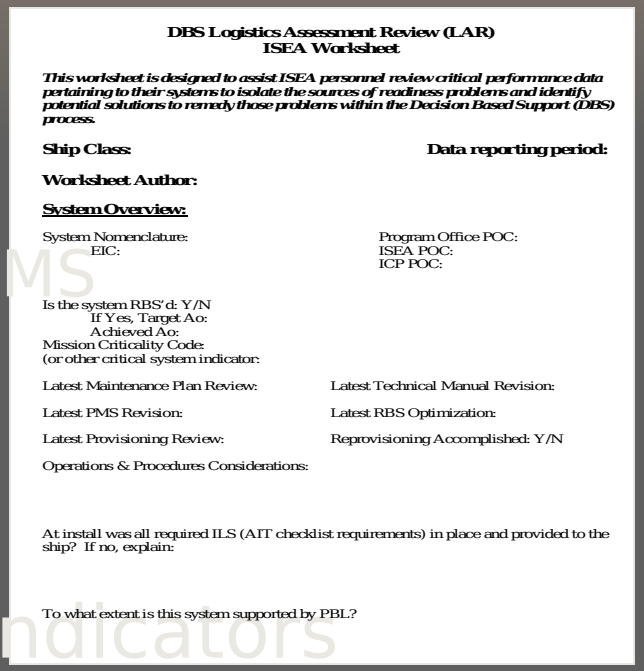
#This Ratio is calculated by dividing the total number of C3 & C4 CASREPs reported for this system for the reporting period by the system population within the ship class. Anything greater than .1 is a further indicator of a problem.

High CASREP NIINs: (Listed here will be top NIINs (10 – 20 , 25) attributable to Parts related CASREPs. Intent is to link the NIIN to an excel spreadsheet with pertinent NIIN/APL/EIC data (e.g. SM&R Code etc.))

CASREP Category	NIINs	3-M Source Code

ISEA LAR Worksheet

- System Data Overview
  - Is system RBS'd; if yes, A_o
  - Latest Maintenance Plan, PMS & Provisioning Reviews
- Ship Specific Indicators
- APL Specific Indicators
- Full Spectrum of System Indicators
  - Reliability - Configuration
  - Maintenance - Training
  - Supportability - Support & Test Equipment
- Conclusions & Recommendations



DBS Logistics Assessment Review (LAR)
ISEA Worksheet

This worksheet is designed to assist ISEA personnel review critical performance data pertaining to their systems to isolate the sources of readiness problems and identify potential solutions to remedy those problems within the Decision Based Support (DBS) process.

Ship Class: **Data reporting period:**

Worksheet Author:

System Overview:

System Nomenclature:
EIC:
Program Office POC:
ISEA POC:
ICP POC:

Is the system RBS'd: Y/N
If Yes, Target Ao:
Achieved Ao:
Mission Criticality Code:
(or other critical system indicator:

Latest Maintenance Plan Review:
Latest Technical Manual Revision:
Latest PMS Revision:
Latest RBS Optimization:
Latest Provisioning Review:
Reprovisioning Accomplished: Y/N
Operations & Procedures Considerations:

At install was all required ILS (AIT checklist requirements) in place and provided to the ship? If no, explain:

To what extent is this system supported by PBL?

DBS Steps Ahead

- Conduct LARS on LHA Systems
  - Apply Lessons Learned to Revising Process, Summary Sheets and ISEA Worksheets
- Create System Summary Sheets for Selected Carrier Systems & Schedule LARs
- Select Submarine Systems for PIRR Data Pull
- Follow-Up Presentation to NSWCs on Process
- Report Out on LAR Results
- Revise Process as Necessary

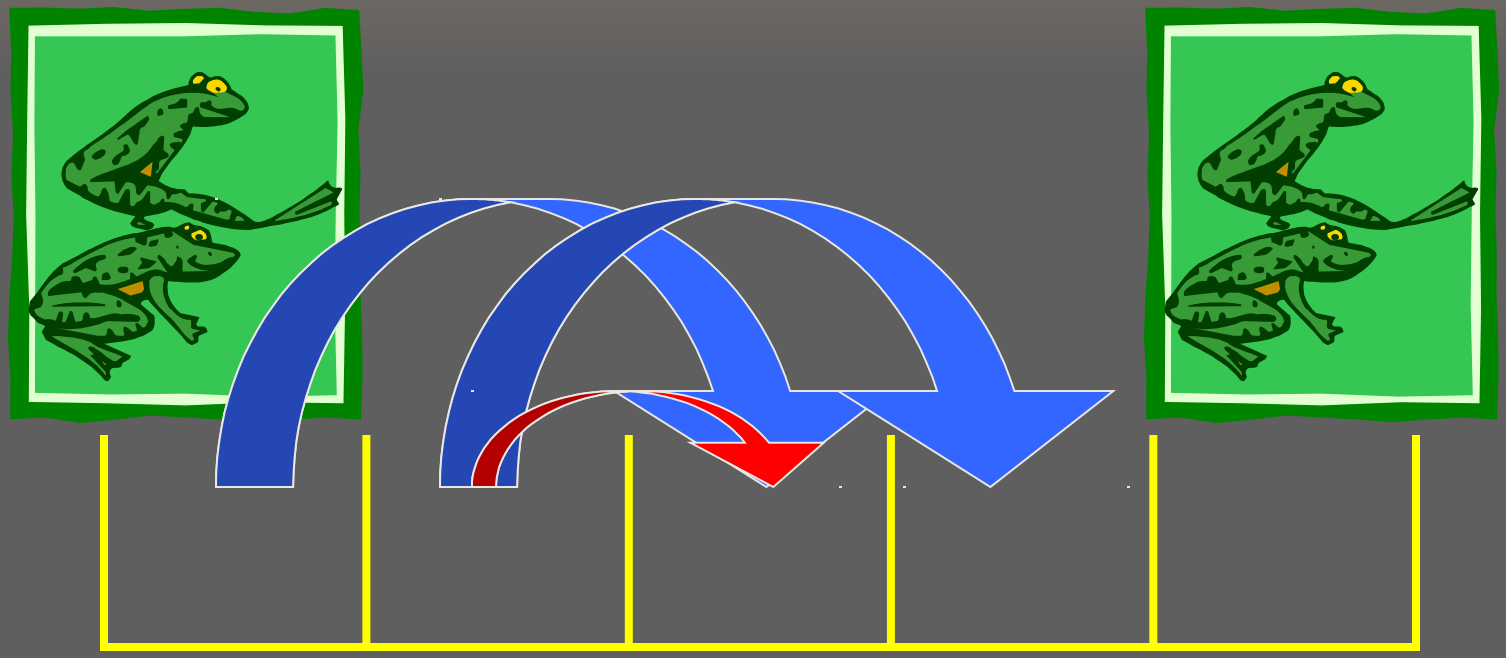
Back up Slides

DBS Budget & Execution

- "Leap Frog" BAM Requirement & Execution Approach
  - Year 1: Identify SAT BAM Budget Requirements for Year 3
  - Year 2: Perform SAT Analysis to Refine & Lock Allowances ("Buy-In") for Execution ("Buy-out") in Year 3
  - Year 2 Allowances also Serve as BAM Budget Requirements for Year 4

Refining Requirement Closer to Execution

DBS Budget & Execution



Year 1 Year 2 Year 3 Year 4 Year 5

Budget Requirement

Refined Requirements for